

**Notice of Allowability**

Application No.

09/585,761

Examiner

Dwin M. Craig

Applicant(s)

BARBER, THOMAS D.

Art Unit

2123

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/25/2005.
2. ☒ The allowed claim(s) is/are 1, 3-10, 12-19 and 21-26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

**DETAILED ACTION**

**And**

**EXAMINER'S REASONS FOR ALLOWANCE**

1. Claims 1, 3-10, 12-19 and 21-26 are allowed.

***Definition***

2. The Examiner notes that the term "*anisotropic substrate*" is defined as "*A substrate whose electric or magnetic properties, or both, are directionally dependent.*" See IEEE 100, "The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition, page 39.

***Examiner's Reasons for Allowance***

3. The following is an examiner's statement of reasons for allowance:
  - 3.1 The following limitations are allowed for at least the reasons being cited,
  - 3.2 As regards independent claims 1, 10 and 19 and using independent claim 1 as an example, the following limitations, in combination with other limitations are neither anticipated nor made obvious by the prior art, "*comparing empirical log data obtained with the second well tool disposed within the borehole against the simulated log data to determine a resistivity anisotropy profile of the formation.*" A "*anisotropic profile*" of a formation, in this case a geologic formation, as measured using a first well tool and a second well tool, and then comparing the resultant data, as expressly claimed by the Applicant and argued by the Applicant in the 11/28/2005 responses, is not disclosed in the prior art. Specifically, the meaning of the term "*anisotropic profile*" can only refer to a profile where the analyzed data is data that results from the changing position of the well tool in the borehole relative to the geologic formation and

Art Unit: 2123

therefore the resultant "*anisotropic profile*" would provide different data models from the data models that are disclosed in the prior art.

The combination of the Applicant's instant amendments to the claims and arguments presented in the 11/28/2005 responses have been, in combination, persuasive and the Examiner withdraws all previously applied prior art rejections.

**3.3** Dependent claims 3-9, 12-18 and 21-26 are allowed for at least the reasons that they depend upon an allowed base claim.

**3.4** Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

**4.** The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent 6,304,086 discloses methods of collecting data using a dual laterolog collection tool placed in a borehole, (Figure(s) 3-9).

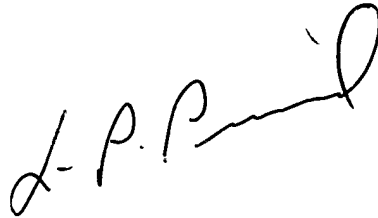
**4.1** Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwin M. Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2123

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DMC

A handwritten signature in black ink, appearing to read "L. P. Picard", written in a cursive style.

**LEO PICARD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100**